

Homeland Security Implementation of the NIST Strategic Plan

**Jim Hill, Director
NIST Building and Fire Research
Laboratory**

**Bert Coursey, Manager
Standards Portfolio
Science and Technology Directorate
Department of Homeland Security**

**Kathleen Higgins, Chair
NIST Homeland Security Strategic
Working Group**

Critical Mission Areas and Initiatives

National Strategy for Homeland Security

July 2002

- **Intelligence and Warning**
- **Border and Transportation Security**
 - Increase the security of international shipping containers
 - Create smart borders
- **Domestic Counterterrorism**
- **Protecting Critical Infrastructures and Key Assets**
 - Develop a national infrastructure protection plan
 - Secure cyberspace
- **Defending Against Catastrophic Threats**
 - Develop better sensors to prevent terrorist use of nuclear weapons
 - Detect chemical and biological materials and attacks
- **Emergency Preparedness and Response**
 - Improve seamless communication among all responders

Initiatives for Science and Technology

National Strategy for Homeland Security

- Develop chemical, biological, radiological and nuclear countermeasures
- Develop systems for detecting hostile intent
- Apply biometric technology to identification devices
- Improve the technical capabilities of first responders
- Set standards for homeland security technology

Homeland Security at NIST

Vision: NIST will be the Nation's key source for standards, measurements, test and evaluation methods, and data needed to satisfy evolving requirements for public safety and Homeland Security technologies.

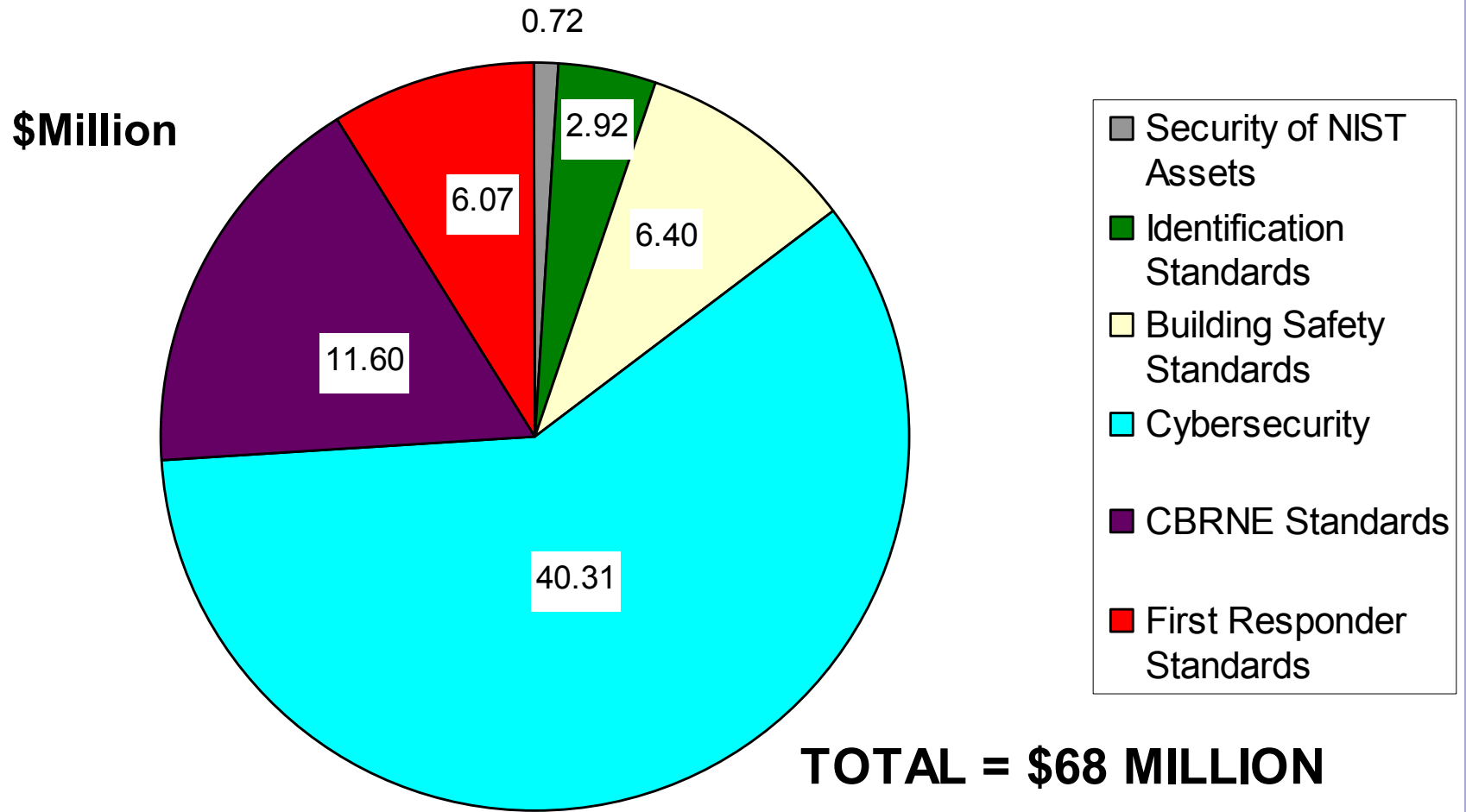
Mission: NIST provides the measurements and standards infrastructure that ensures the accuracy, reliability, interoperability, and security of systems critical to public safety and Homeland Security.

Setting Priorities Across Strategic Focus Areas

- **Currently done within OUs with cross-OU collaboration enhanced by Strategic Working Groups**
- **In the future, by strategically focusing on NIST critical areas and tying to decisions on funding, facilities, and competencies**

Fiscal Year 2005

NIST Laboratory Investments (STRS) in Homeland Security



Performance Metrics

Homeland Security at NIST

- **Changes in U.S. operational systems**
- **Influence on U.S. industry product/system development**
- **Impact of NIST planning on DHS/Congress/White House**
- **New standards developed and adopted/other impacts on U.S. standards community**
- **New measurement technologies developed**
- **Support for other agencies**
- **NIST staff detailed to influential positions at DHS**

NIST Accomplishments

Science and Technology

A Foundation for Homeland Security

April 2005

- Key player of and requirements for SAFECOM
- Development of biometric identifiers for US-VISIT
- Development of four radiation detection standards for common radiation detectors
- Completion of WTC Investigation with recommendations for changes to building and fire codes, standards, and practices
- Leadership of interagency Internet Engineering Task Force to advance standards and specifications related to internet security and completion of 40 cyber security standards and guidance documents.